

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2001050034 A

(43) Date of publication of application: 23.02.01

(51) Int. Cl      **F01N 3/08**  
**F01N 3/20**  
**F01N 3/28**  
**F01N 3/36**  
**F02M 25/07**

(21) Application number: 11219617

(22) Date of filing: 03.08.99

(71) Applicant: HINO MOTORS LTD

(72) Inventor: SATO SHINYA  
HOSOYA MITSURU  
SHIMODA MASATOSHI

(54) EXHAUST EMISSION CONTROL METHOD FOR  
DIESEL ENGINE

reduction catalyst 5.

COPYRIGHT: (C)2001,JPO

(57) Abstract:

PROBLEM TO BE SOLVED: To achieve a practical use of an emission exhaust gas purification device in which by control NOx is released actively from a NOx storage compound according to a reactive temperature range of a NOx reduction catalyst, and the NOx storage compound is compatibly used as the NOx reduction catalyst.

SOLUTION: NOx in exhaust gas 2 is oxidized and stored as nitrate temporarily by a NOx storage compound 4. By adding at least one kind among H<sub>2</sub>, CO, and HC to the exhaust gas 2, while an engine is operated with a necessarily reduced intake air amount to be leaner than a stoichiometric air-fuel ratio, NOx is decomposed and released from the NOx storage compound 4 so as to regenerate the NOx storage compound 4. The released NOx is reduced and purified through being reacted with at least one kind among H<sub>2</sub>, CO, and HC on a NOx

